BACKGROUND PAPER

SUBJECT: Joint Command and Control, Intelligence, Surveillance, and Reconnaissance (JC2ISR) Joint Test and Evaluation (JT&E)

PROGRAM SPONSOR: Aerospace Command and Control & Intelligence, Surveillance and Reconnaissance Center (AC2ISRC), Langley AFB, VA

BACKGROUND: In June 1999, the USAF's AC2ISRC nominated JC2ISR for consideration as a new JT&E project. The Office of the Secretary of Defense (OSD) accepted the nomination and designated the Air Force as the lead Service to conduct a Joint Feasibility Study (JFS). With the aid of a Joint Working Group (JWG) composed of representatives from the CINCs, Services, and National Intelligence Agencies, the JC2ISR JFS team scoped the JT&E to focus on the Joint Task Force and Component Commander's ability to command and control intelligence, surveillance, and reconnaissance (ISR) sensors to detect, identify, track, and engage high value, mobile surface targets. Prosecuting these time critical targets (TCT) requires precise synchronization of C2ISR operations and the rapid exchange of accurate targeting information between ISR, operational decision makers, and weapon systems. In June 2000, the JC2ISR JFS team completed the one-year feasibility study and documented the results in a Joint Feasibility Study Report (JFSR). The study indicated the JC2ISR JT&E was both necessary and feasible. On 13 July 2000, the OSD JT&E Senior Advisory Council (SAC) accepted the JFS results and recommended JC2ISR be chartered as a new JT&E project.

PURPOSE: The Office of the Director, Strategic and Tactical Systems (ODS&TS), Office of the Under Secretary of Defense for Acquisition, Technology, and Logistics (OUSD AT&L) chartered JC2ISR to employ multi-Service and other Department of Defense (DoD) agency support, personnel and equipment to investigate, evaluate, and make recommendations to improve the operational effectiveness of Joint C2ISR. Specifically, JC2ISR will test and evaluate the Joint Task Force and Components' ability to dynamically task and re-task ISR collection platforms and sensors and their ability to process, exploit, and disseminate combat information to support time critical targeting. The JC2ISR JT&E project will measure current baseline C2ISR processes used to prosecute TCTs, identify ISR platform and sensor tasking, processing, exploitation, and dissemination (TPED) deficiencies, and identify opportunities for C2ISR improvements. In conducting the JT&E, the JC2ISR Joint Test Force will address four issues:

Issue 1: How much can changes to Joint C2ISR sensor management TTPs improve the JTF and supporting components' ability to detect, identify, locate, and track high value, mobile surface targets?
Issue 2: How much can changes to Joint C2ISR sensor management architecture improve the JTF and supporting components' ability to detect, identify, locate, and track high value, mobile surface targets?
Issue 3: How much can changes to Joint C2ISR information management TTPs improve the JTF and supporting components' ability to detect, identify, locate, track, and engage high value, mobile surface targets?
Issue 4: How much can changes to Joint C2ISR information management architecture improve the JTF and supporting components' ability to detect, identify, locate, track, and engage high value, mobile surface targets?

PROGRAM ORGANIZATION: The Joint Test Director (JTD), Colonel Stephen Farry, USAF, organized the JC2ISR Joint Test Force into three divisions: Test Operations, Test Management, and Test Support. Each division, headed by a Service representative, includes a mix of government and civilian contractor personnel with extensive experience in test and evaluation as well as the operational aspects of C2ISR support to time critical targeting. Based out of Hurlburt Field, FL, the Joint Test Force will quickly grow to over 50 personnel.

TEST APPROACH: The JC2ISR JT&E program will execute three field tests. Each test will rigorously evaluate baseline performance and the contribution of enhanced C2ISR processes to account for year to year changes in test venues, operational architectures, and participating forces. The testing will evaluate the real-time, C2ISR battle execution processes within the JTF and Component used to prosecute surface-based TCTs (excluding airborne or submerged targets). The JT&E will develop, document and disseminate conclusions and recommendations regarding enhancements to Joint C2ISR architecture and processes following each test. This procedure will enable new and proven enhancements to be rapidly disseminated to the joint warfighter throughout the JT&E program. The JC2ISR JT&E program schedule follows:

	Activity	FY00	FY01	FY02	FY03	FY04	FY05
1	JC2ISR JT&E Program Execution						
2	Program Test Plan (PTP)						
3	Field-Test 1 (FT1) - ASCIET 01						
4	Field Test 2 (FT2) - Nellis Flag						
5	Field Test 3 (FT3) - Nellis Flag						
6	Final Report						

ACCOMPLISHMENTS: Since the July 2000 charter decision, the JTD established the JTF organization, began Service and contractor manning actions, and arranged for necessary beddown facilities to support program execution. The JTF staff is now drafting and coordinating the JC2ISR Program Test Plan (PTP) that provides a comprehensive description of planned test activities.

PLANNED ACTIVITIES: During FY01, the JTF will complete the JC2ISR PTP, conduct detailed test planning for the first field test, and execute Field Test 1 (FT1) in conjunction with ASCIET 01. This test will conducted in the Gulfport/Camp Shelby MS area in September, 2001.

LEGACY PRODUCTS: The principal JC2ISR legacy products include:

- Recommendations to improve Joint and Service C2ISR tactics, techniques, and procedures (TTPs) and operational concepts for use by the CINCs and Services.
- Recommendations to improve Joint and Service time critical targeting TTPs and operational concepts for use by Joint Task Force and Components.
- An extensive database of the results of JC2ISR tests conducted in realistic conditions for use by the CINCs, Services, and Joint Staff in establishing requirements for future systems.

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